

PATENT CLAIMS

1. Conveying device for conveying workpieces through preferably a press line or transfer press having a lifting apparatus that is connected to a transverse crossmember (17) which itself carries a fixed transverse member (23) on which is arranged an extension arm (24) that can travel having a slide (27) that can travel, characterized in that at least one guide carriage (30) having a carrying device (33, 34, 35) is provided that can be driven in its horizontal movement by the traveling movement of said extension arm (24) and said guide carriage (30) is mechanically linked to a linear guide (36 – 39).

2. Conveying device in accordance with claim 1, characterized in that said carrying device comprises racks (33, 34) and a toothed wheel (35), whereby said driving rack (34) is securely joined to said extension arm (24) and said rack (33) is securely joined to said transverse member (23).

3. Conveying device in accordance with claim 1, characterized in that said linear guide (36 – 39) is a rolling or sliding guide that can be embodied as a flat or circular guide.

4. Conveying device in accordance with claim 1 through 3,
characterized in that the guide shoes (38, 39) of said linear guide are joined to
one another via a holding plate (40).

5. Conveying device in accordance with one or more of the foregoing
5 claims, characterized in that said extension arm (24) that can travel is embodied
as a telescoping multiple extension arm, whereby guide carriages (30) with
carrying apparatus (33, 34, 35) can be arranged on each pair of telescoping
units.

6. Conveying device in accordance with one or more of the preceding
10 claims, characterized in that said carrying apparatus can be created from a chain
drive or toothed belt drive.